

CLAIMS

What is claimed is:

- Sub
A7⁵
1. An adjustable chair, comprising:
a ribbed cage;
at least one support member removably engageable with the ribbed cage;
a multiply positionable coupler removably connectable to the ribbed cage; and
three or more variably configurable legs mounted on the multiply positionable coupler,
wherein each of the three or more variably configurable legs is movably fastened to the
10 to the multiply positionable coupler at more than one location.
 2. An adjustable chair as recited in claim 1, wherein the ribbed cage includes a plurality of tines
having a leading end and a following end.
 - 15 3. An adjustable chair as recited in claim 2, wherein at least two of the plurality of tines further
comprise a removable swivelable boom connectable to the following end of the at least two of the
plurality of tines.
 4. An adjustable chair as recited in claim 1, wherein the at least one support member includes
20 a seat portion and back portion for supporting a person.
 5. An adjustable chair as recited in claim 1, wherein the multiply positionable coupler includes
a support assembly formed with a first tube having a proximal end, a distal end, and a
circumferential surface between the proximal end and distal end.
 - 25 6. An adjustable chair as recited in claim 5, further comprising an upper collar slidably
engageable with the first tube, the upper collar having an upper surface, a lower surface, a wall
therebetween, a hole formed in the approximate center of the wall, and a plurality of slots formed
in the wall and extending radially toward the longitudinal axis through the center of the first tube.

27
cost

7. An adjustable chair as recited in claim 6, further comprising a first retaining ring abutting the proximal end of the first tube, and a second retaining ring engageable with the lower surface of the upper collar and with the circumferential surface of the first tube.

5 8. An adjustable chair as recited in claim 7, further comprising a plurality of arms pivotally connectable to the plurality of slots, the plurality of arms having a fore end, an aft end, and an elongated body between the fore end and aft end.

10 9. An adjustable chair as recited in claim 5, further comprising a lower collar slidably engageable with the first tube, the lower collar formed with an exterior surface, an interior surface, a lower edge, an annular surface, a cavity between the lower edge and interior surface, and an opening formed through the exterior surface, interior surface and cavity coincident with the longitudinal axis of the first tube.

15 10. An adjustable chair as recited in claim 9, further comprising a guide extension slidably engageable with the first tube and having an orifice, an exterior face, and interior face, and a band between the exterior face and interior face, the guide extension extending from the exterior surface of the lower collar.

20 11. An adjustable chair as recited in claim 10, wherein the lower collar includes a plurality of notches formed through the annular surface of the lower collar toward the longitudinal axis of the lower collar.

25 12. An adjustable chair as recited in claim 1, wherein the multiply positionable coupler includes a carriage device formed with a second tube having an anterior end, a posterior end, and an outer surface therebetween.

13. An adjustable chair as recited in claim 12, further comprising a fixed collar attached to the posterior end of the second tube, the fixed collar being formed with a forward surface, a rear surface,

27
cont

a body therebetween, a duct formed through the approximate center of the body, and a plurality of slits formed in the body extending radially toward the longitudinal axis through the center of the second tube.

5 14. An adjustable chair as recited in claim 13, further comprising a barrel slidably engageable with the second tube, the barrel formed with an initial surface, a subsequent surface, a neck therebetween, a bore formed through the approximate center of the neck, and a plurality of apertures formed in the neck extending radially toward the longitudinal axis through the center of the second tube.

10 15. An adjustable chair as recited in claim 14, further comprising a plurality of struts pivotally connectable to the apertures and to the three or more variably configurable legs.

15 16. An adjustable chair as recited in claim 15, wherein the second tube includes a third retaining ring attached to the anterior end of the second tube.

17. A portable variably positionable seating system, comprising:
a plurality of tines

20 wherein at least two of the plurality of tines further comprises a swivelable boom;
one or more removable panels engageable with the plurality of tines for supporting a person;
a support assembly pivotally connectable to the plurality of tines,
wherein the support assembly includes a first tube;
a carriage device slidably and rotationally positionable on the first tube of the support
assembly; and

25 a plurality of legs pivotally attachable to the carriage device.

18. A portable variably positionable seating system as recited in claim 17, wherein the support assembly includes an upper collar slidably engageable with the first tube.

19. A portable variably positionable seating system as recited in claim 17, wherein the support assembly includes means for movably interconnecting the support assembly to the plurality of tines.

20. A portable variably positionable seating system as recited in claim 19, wherein the support assembly includes a plurality of arms pivotally connectable to the support assembly and to the plurality of tines.

21. A portable variably positionable seating system as recited in claim 17, wherein the support assembly includes a first retaining ring connected to an end of the first tube for preventing disengagement of the support assembly and the first tube.

22. A portable variably positionable seating system as recited in claim 17, wherein the support assembly includes a second retaining ring engageable with the first tube.

23. A portable variably positionable seating system as recited in claim 17, wherein the support assembly includes a lower collar slidably engageable with the first tube for positioning the plurality of tines.

24. A portable variably positionable seating system as recited in claim 22, wherein the support assembly includes a guide extension slidably engageable with the first tube for distributing rotational, compressive, and translational forces along the first tube during movement of the lower collar.

25. A portable variably positionable seating system as recited in claim 17, wherein the support assembly includes means for movably connecting the plurality of legs to the support assembly.

26. A portable variably positionable seating system as recited in claim 17, wherein the carriage device includes a second tube slidably engageable with the first tube.

(27)
Cont

27. A portable variably positionable seating system as recited in claim 17, wherein the carriage device includes a fixed collar attached to one end of the second tube for movably connecting the plurality of legs and for restraining movement of the support assembly.

5 28. A portable variably positionable seating system as recited in claim 17, wherein the carriage device includes means for positioning the plurality of legs.

29. A variably adjustable chair, comprising:
a cage,

10 wherein the cage includes a plurality of ribs;
at least one support panel removably engageable with the cage;
means connectable to the cage for positioning in multiple configurations the variably adjustable chair; and
at least two adjustable legs pivotally attachable to the positioning means.

15 30. A variably adjustable chair as recited in claim 29, wherein the positioning means includes a first tube.

20 31. A variably adjustable chair as recited in claim 29, wherein the positioning means includes an upper collar slidably engageable with the first tube.

32. A variably adjustable chair as recited in claim 31, wherein the positioning means includes a first retaining ring abutting an end of the first tube.

25 33. A variably adjustable chair as recited in claim 32, wherein the positioning means includes a plurality of arms pivotally connectable to the upper collar.

34. A variably adjustable chair as recited in claim 33, wherein the positioning means includes a lower collar slidably engageable with the first tube.

Q7
cont

35. A variably adjustable chair as recited in claim 34, wherein the positioning means includes a guide extension slidably engageable with the first tube.

5 36. A variably adjustable chair as recited in claim 35, wherein the positioning means includes a plurality of notches formed in the lower collar.

10 37. A variably adjustable chair as recited in claim 36, wherein the positioning means includes a carriage device slidably engageable with the first tube, the carriage device being formed with a second tube.

38. A variably adjustable chair as recited in claim 37, wherein the positioning means includes a fixed collar attached to an end of the second tube.

15 39. A variably adjustable chair as recited in claim 38, wherein the positioning means includes a barrel slidably engageable with the second tube.

20 40. A variably adjustable chair as recited in claim 29, wherein the positioning means includes a plurality of struts pivotally connectable to the barrel and to the at least two adjustable legs.

41. A variably adjustable chair as recited in claim 29, wherein the positioning means includes a third retaining ring attached to an end of the second tube.

25 42. A method for manufacturing an adjustable seating device, comprising:
shaping a plurality of tines into a ribbed cage;
providing at least one removable support member engageable with the ribbed cage;
including a repositionable support assembly connectable to the ribbed cage;
installing a plurality of arms pivotally connectable to the ribbed cage and to the repositionable support assembly;

27
cont

5 positioning a carriage device on the repositionable support assembly;
arranging on the carriage device a plurality of adjustable legs; and
deploying a plurality of struts pivotally connectable to the carriage device and to the plurality
of adjustable legs.

43. A method for manufacturing an adjustable seating device as recited in claim 42, wherein the
shaping step further includes the substep of including a removable swivelable boom connectable to
at least two of the plurality of tines.

10 44. A method for manufacturing an adjustable seating device as recited in claim 42, wherein the
at least one removable support member providing step includes the substeps of:

including a first tube having a proximal end, a distal end, and a circumferential surface
between the proximal end and distal end;

providing an upper collar slidably engageable with the first tube;

15 installing a first retaining ring abutting the proximal end of the first tube;

providing a second retaining ring engageable with the upper collar and the first tube;

sliding a lower collar over the first tube;

including a guide extension slidably engageable with the first tube; and

forming one or more notches in the lower collar.

20 45. A method for manufacturing an adjustable seating device as recited in claim 42, wherein the
carriage device positioning step includes the substeps of:

selecting a second tube having an anterior end, a posterior end, and an outer surface
therebetween;

25 fixing a collar to the posterior end of the second tube;

forming a plurality of slits in the carriage device;

selecting a barrel slidably engageable with the second tube;

forming a plurality of apertures in the barrel; and

installing a third retaining ring to one end of the second tube.

Q7
cont
5

46. A method for manufacturing an adjustable seating device as recited in claim 42, wherein the plurality of adjustable legs arranging step includes the substep of providing struts pivotally connectable to the plurality of adjustable legs.